

DESCRIPTION

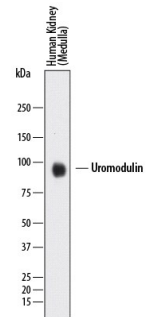
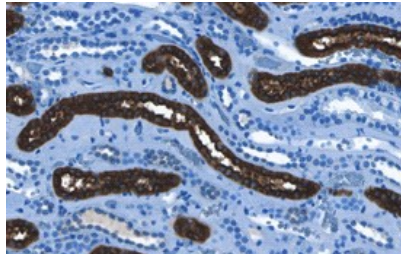
Species Reactivity	Human
Specificity	Detects human Uromodulin in ELISA.
Source	Monoclonal Mouse IgG ₁ Clone # 877914
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Uromodulin Asp25-Ser614 Accession # P07911
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human Uromodulin by Western Blot. Western blot shows lysates of human kidney (medulla) tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Uromodulin Monoclonal Antibody (Catalog # MAB5144) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Uromodulin at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Uromodulin in Human Ovary. Uromodulin was detected in formalin fixed paraffin-embedded sections of human ovary tissue using Mouse Anti-Human Uromodulin Monoclonal Antibody (Catalog # MAB5144) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cells in convoluted tubules. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Uromodulin (also Tamm-Horsfall glycoprotein or THP) is an 85-95 kDa urinary glycoprotein. It is secreted by renal tubule epithelium, acts as a binding protein for IL-1, TNF-α and C1q, activates resting monocytes and promotes neutrophil phagocytosis. Uromodulin forms high molecular weight oligomers that line the kidney tubules. Human Uromodulin is GPI-linked. Its proprecursor is 616 amino acids (aa) in length. It contains three EGF-like domains (aa 28-149), a ZP domain that mediates oligomerization (aa 334-589) and a cleavable C-terminal propeptide (aa 615-640). There are multiple splice variants. One shows a deletion of aa 67-199, a second shows a nine aa substitution for aa 609-640, a third shows a Pro substitution for aa 205-234 and a fourth shows a 66 aa substitution for aa 613-640. Over aa 25-614, human Uromodulin is 78% aa identical to mouse Uromodulin.